

FIG. 1

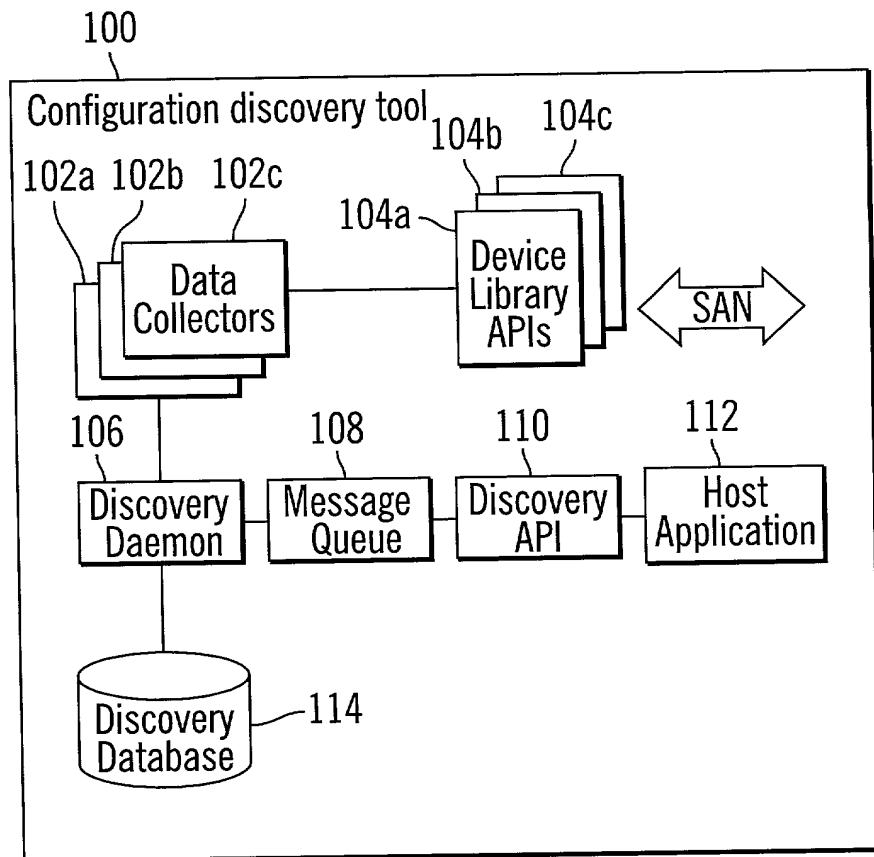


FIG. 2

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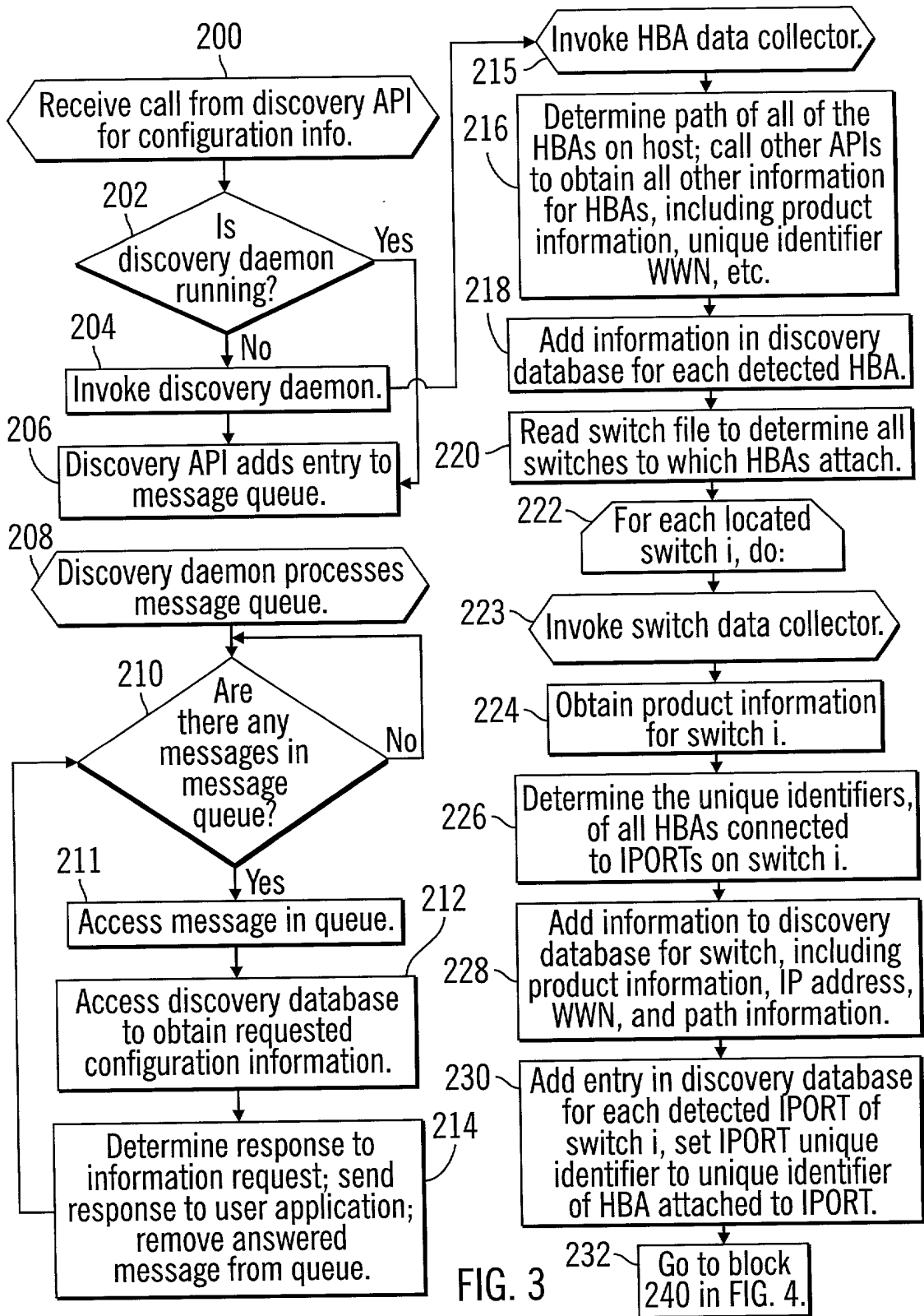


FIG. 3

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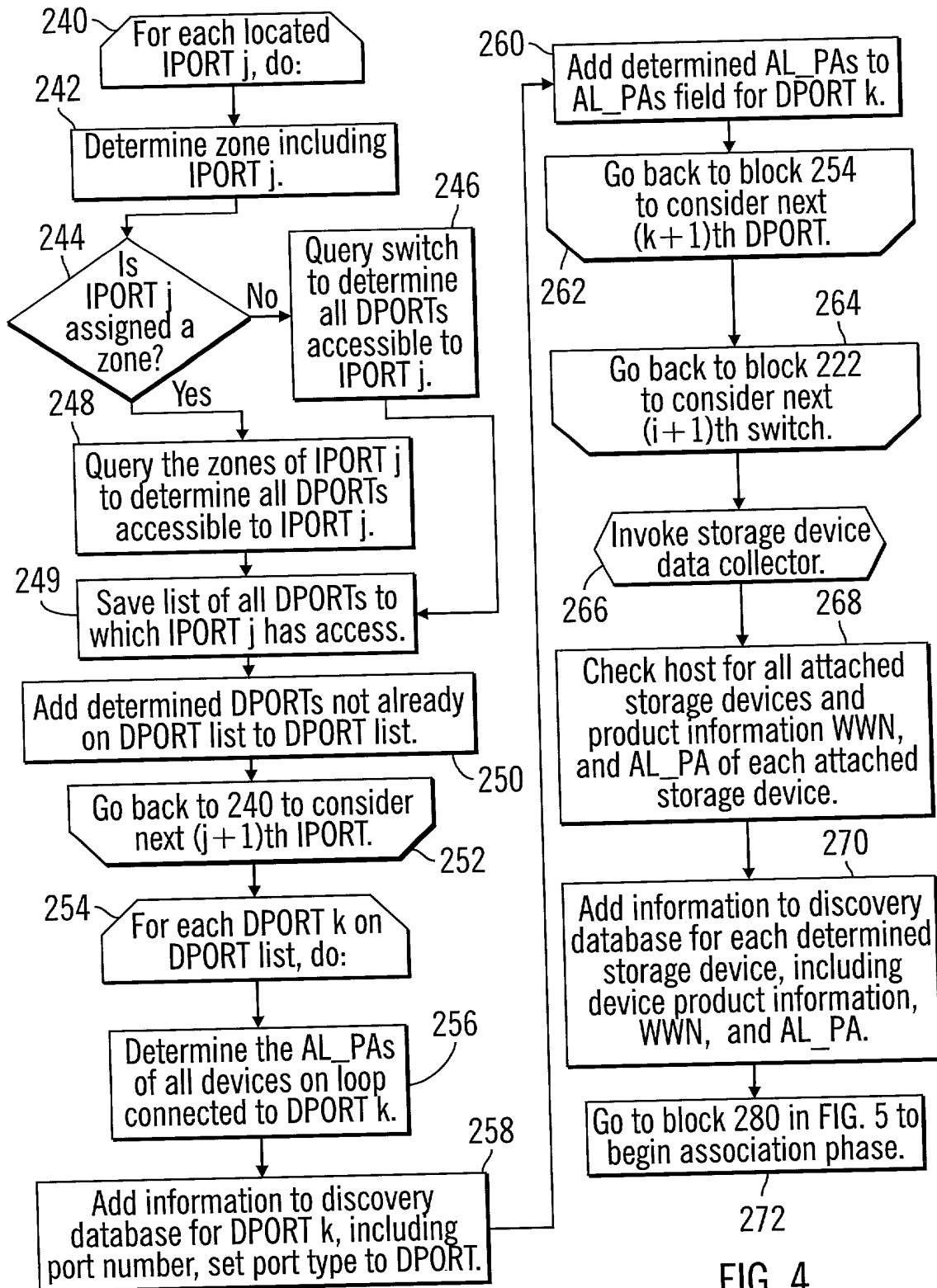


FIG. 4

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graph TD
    280{Was switch detected?} -- No --> 312((312))
    280 -- Yes --> 282[Determine all IPORTs and host HBAs in discovery database having same WWN and AL_PA.]
    282 --> 284[Set parent field in IPORT to host HBA, having matching WWN and AL_PA.]
    284 --> 290[For each IPORT j, do:]
    290 --> 292[For each DPORT m in list of DPORTs accessible to IPORT j, do:]
    292 --> 294[From discovery database, determine list of AL_PAs attached to DPORT m.]
    294 --> 296{Does one of determined AL_PAs for DPORT m match AL_PA of one storage device having the same physical path as the HBA connected to IPORT j?}
    296 -- Yes --> 314[Set parent field for each storage device with empty parent field to HBA having same physical path.]
    296 -- No --> 298[Go back to block 292 to consider next (m+1) DPORT.]
    314 --> 308{Are there any storage devices that have empty parent field?}
    308 -- No --> 312
    308 -- Yes --> 300[In discovery database, set parent field for storage device with matching AL_PA to DPORT m.]
    300 --> 306[In discovery database, set parent field for DPORT m to determined IPORT.]
    306 --> 308

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FIG. 5